Research Fellow/Research Engineer (Ship management) - ML1
Singapore Institute of Technology

Job Title	Research Fellow/Research Engineer (Ship management) - ML1
Department	Engineering
Institution	Singapore Institute of Technology
	Singapore, , Singapore
Date Posted	Apr. 15, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Computer Science
	Engineering - Other
Job Website	https://careers.singaporetech.edu.sg/cw/en/job/498641/research-fellowresearch-engineer-ship-management-ml1
Apply By Email	
Job Description	

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Job no: 498641
Department: Engineering
Contract type: Contract
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As a University of Applied Learning, SIT works closely with industry in our research pursuits. Our research staff will have the opportunity to be equipped with applied research skill sets that are relevant to industry demands while working on research projects in SIT.

The primary responsibility of this role is to deliver on an industry innovation research project where you will be part of the research team to develop/produce/investigate a multi-objective ship decision support system to optimize ship operations for better efficiency and lower emissions and to develop ship management capabilities to provide ship operation advisories.

Key Responsibilities

- Participate in and manage the research project with Principal Investigator (PI), Co-PI and the research team members to ensure all project deliverables are met.
- Undertake these responsibilities in the project:
  i. Carry out literature review on the state of the art in modelling, simulation and optimization of ship operations.
  ii. Collection of historical data for ship operations.
  iii. Development of a multi-objective ship decision support system.
  iv. Carry out testing of the system using real-time data from ships.
- Carry out Risk Assessment, and ensure compliance with Work, Safety and Health Regulations.
- Coordinate procurement and liaison with vendors/suppliers.
- Work independently, as well as within a team, to ensure proper operation and maintenance of equipment.

Job Requirements

- Have relevant competence in the areas of modelling, simulation and optimization
- Have a degree in Computer Science. Possessing a Master's or PhD degree will be advantageous
- Knowledge of commercial simulators such as FlexSim will be advantageous

Key Competencies

- Able to carry out software system development in C++/Java/Python
- Able to build, analyze and optimize complex simulation models
- Able to build and maintain strong working relationships with people within and external to the university.
- Self-directed learner who believes in continuous learning and development

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- Proficient in technical writing and presentation
- Possess strong analytical and critical thinking skills
- Show strong initiative and take ownership of work

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Advertised: 15 Apr 2024 Singapore Standard Time
Applications close: 31 Dec 2024 Singapore Standard Time

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Singapore